PrimaLuna®

EvoLution Series

Tube Digital Analogue Converter

EVO 100-9

Version 2.5 – April 19, 2021

PrimaLuna®
EvoLution Series

Table Of Contents

The information in this manual is subject to change without further notice.

PrimaLuna®
EvoLution Series

Front Panel Controls
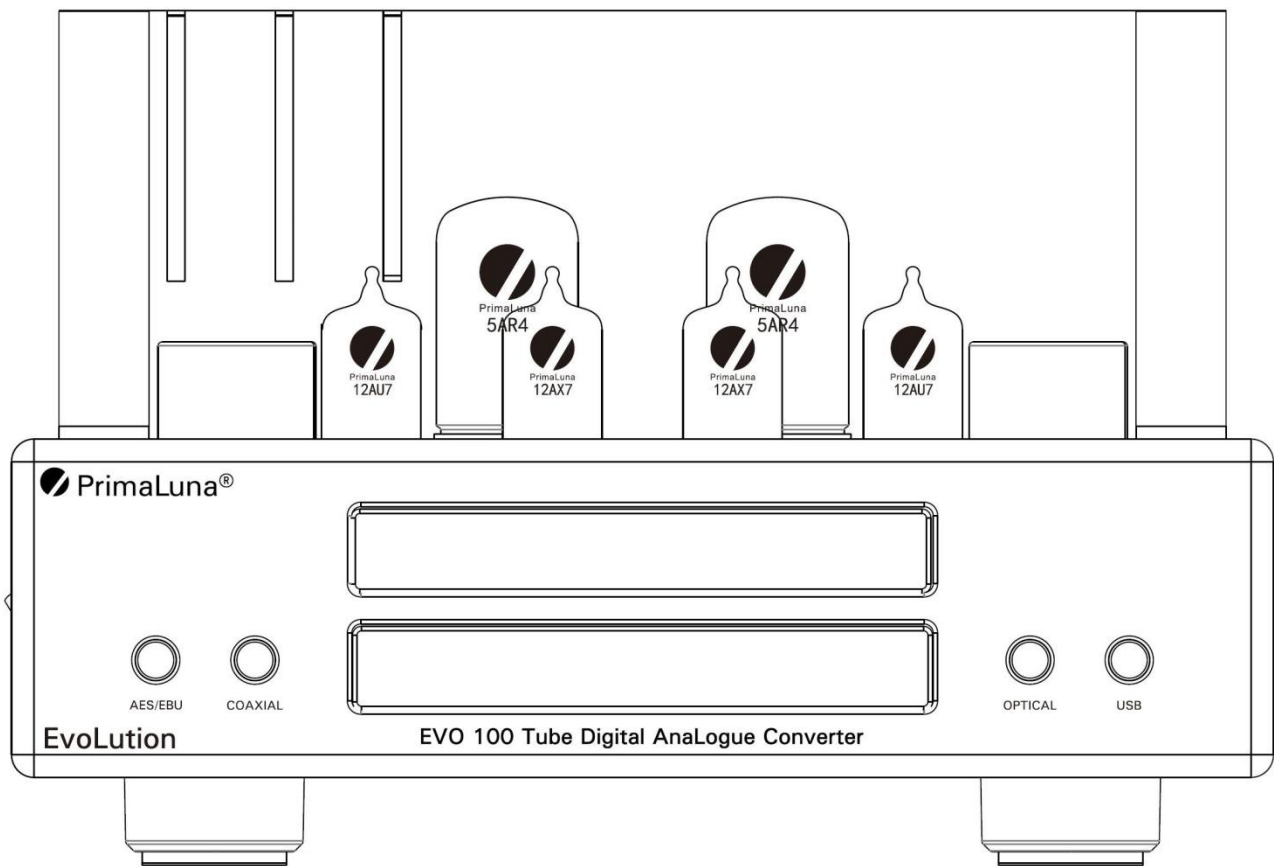
On the front panel you will find the following:

1. AES/EBU input selector
2. COAXIAL input selector
3. OPTICAL input selector
4. USB input selector
5. Top Display (shows the selected input)
6. Bottom Display including Remote Sensor (shows the sample rate)

PrimaLuna®
EvoLution Series

Rear Panel Inputs & Outputs
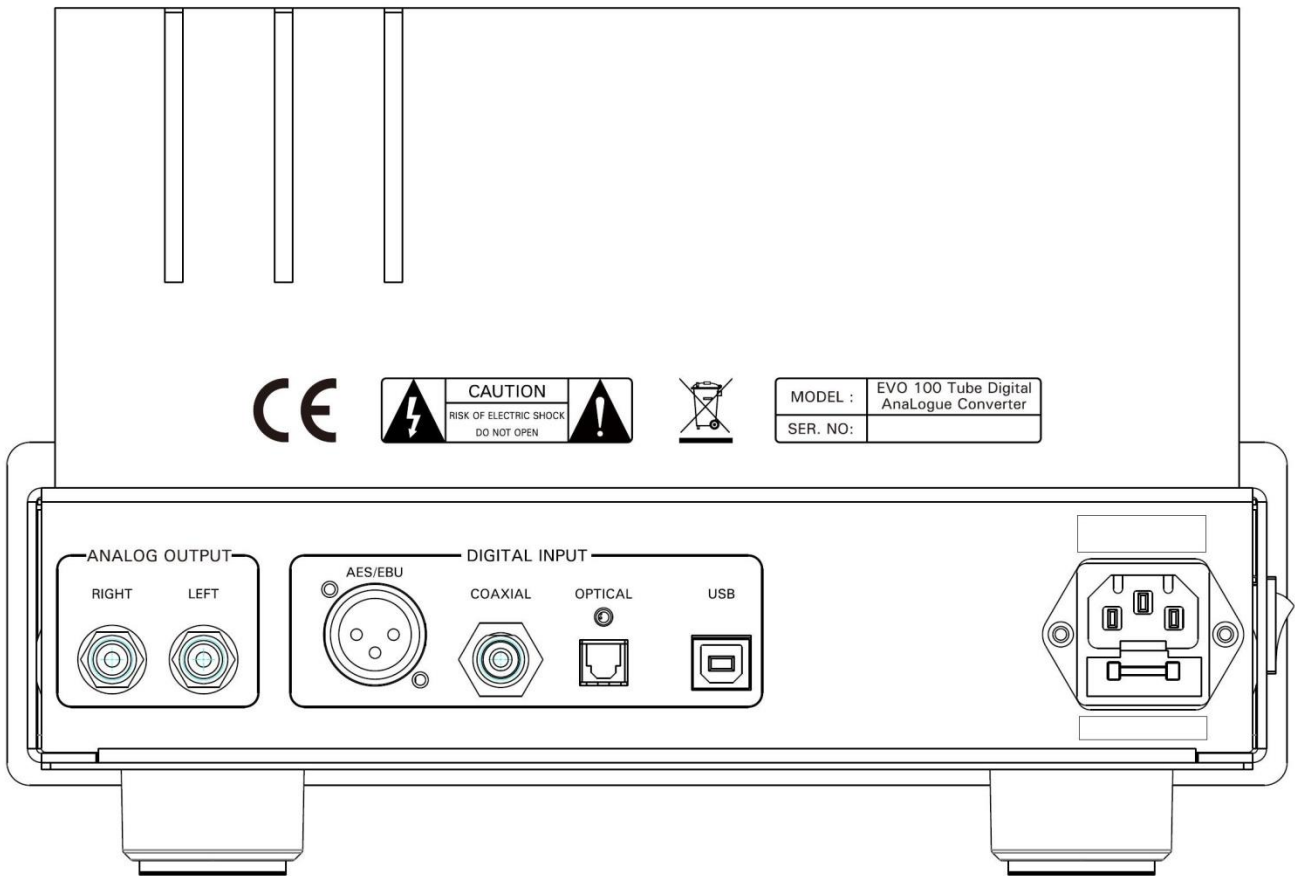
On the rear panel you will find the following:

1. RCA Stereo analog output connectors
2. AES/EBU digital input connector
3. COAXIAL digital input connector
4. OPTICAL digital input connector
5. USB digital input connector
6. AC connector including fuse holder

PrimaLuna®
EvoLution Series

Left Side Panel

On the left side panel, you find the Mains On/Off switch. The related AC fuse you find on the rear.

Fuse Protection

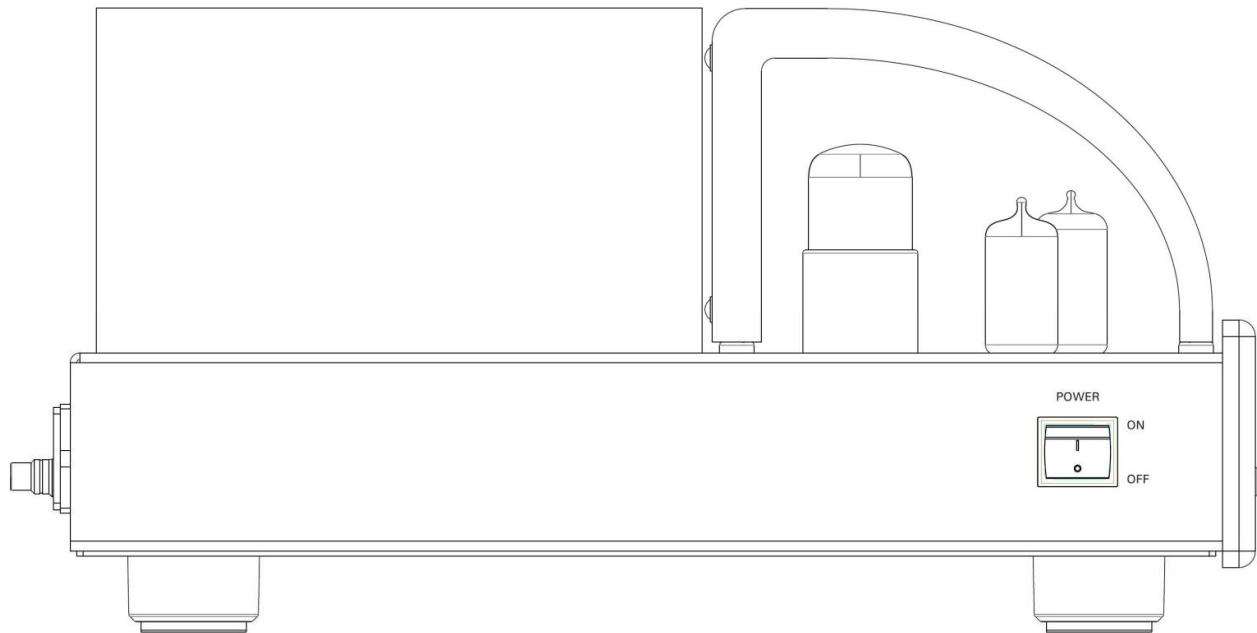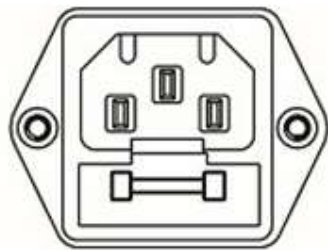*Warning!* Fuses are safety valves. They should always be replaced with the exact same value and type. Never attempt to check or replace a fuse while the DAC is plugged in. Turn it off and unplug the AC cord before continuing. Wait 10 minutes to let tubes cool down and the circuit to fully discharge.

Mains Fuse: The mains fuse is located on the rear of the amplifier, just below the power cord socket (see picture on the left). The fuse rating is 1 x **Littelfuse 213 Series** 1A Slow Blow 5 x 20mm fuse for 100-125VAC and **Littelfuse 213 Series** 0.5A Slow Blow 5 x 20mm fuse for 200-250VAC. Always replace with the same type and value fuse! **Littelfuse 213 is a special time-delayed slow blow fuse! Not a standard slow blowe fuse!** The fuse holder can be opened using a small slotted flat blade screwdriver.

PrimaLuna®
EvoLution Series

Remote Control
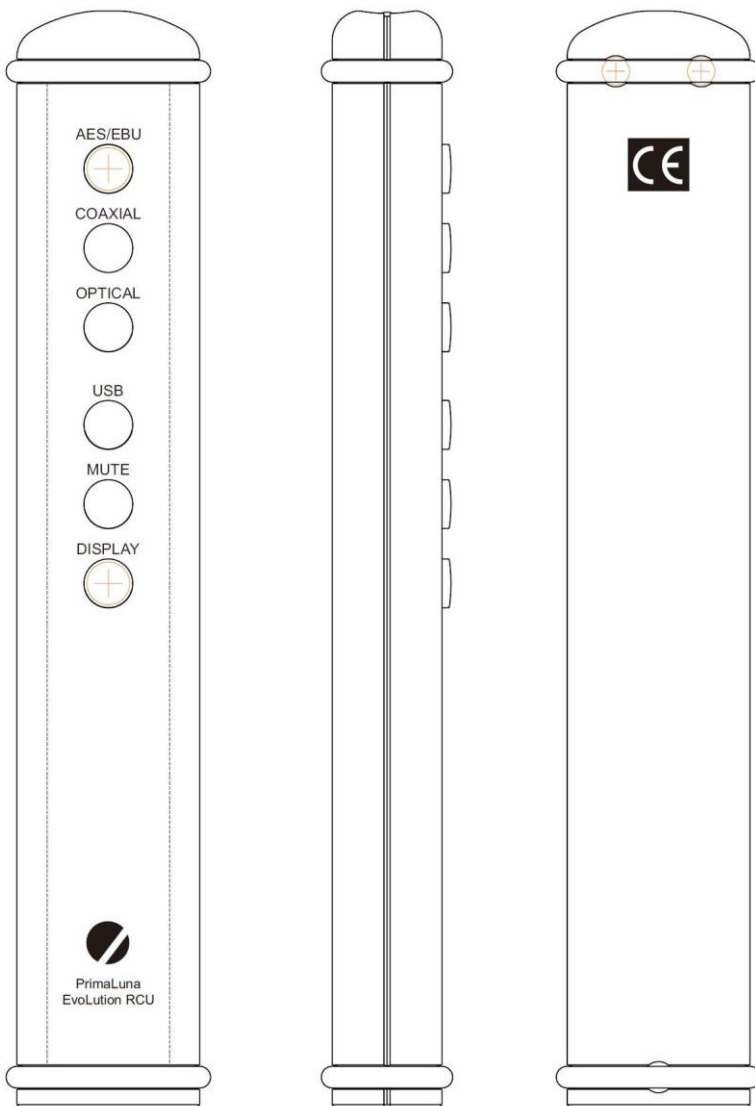
The remote control handles your source selection, as well as mute on/off and the display setting. Attention! Due to increasingly stringent safety measures, it can happen that the remote control arrives without batteries installed.

The Remote Control has two high-quality silicon rubber rings on each end to protect it from becoming damaged or damaging your furniture. These rings can be easily removed in case batteries have to be replaced.

In the event your remote control does not function, please first check the battery and if necessary, replace it with a new CR2032 model battery. To access the battery compartment, remove the rubber rings and unscrew the backplate.

If the remote still does not function, contact your dealer for further assistance.

PrimaLuna®
EvoLution Series

Connections and start-up sequence

1. Digital input connection:
   Connect your digital source to one of the digital inputs:
   - AES/EBU (use a good quality 110 Ohm cable with XLR connectors)
   - Coax (use a good quality 75 Ohm cable with RCA connectors)
   - Optical (use a good quality optical Toslink cable)
   - USB (use the supplied USB cable or another high-quality USB cable of your choice)

2. Analog output connection:
   Connect good quality RCA cables between the stereo analog RCA output connectors from your DAC to the input from your integrated amplifier or preamplifier.

3. Start-up sequence:
   The vacuum tubes take 60 seconds to warm up to desirable working conditions. The DAC will be muted during this period of time and there will be no audio signal-output coming from the DAC.

Tube Info

5AR4
V1

5AR4
V2

12AU7
V3

12AX7
V4
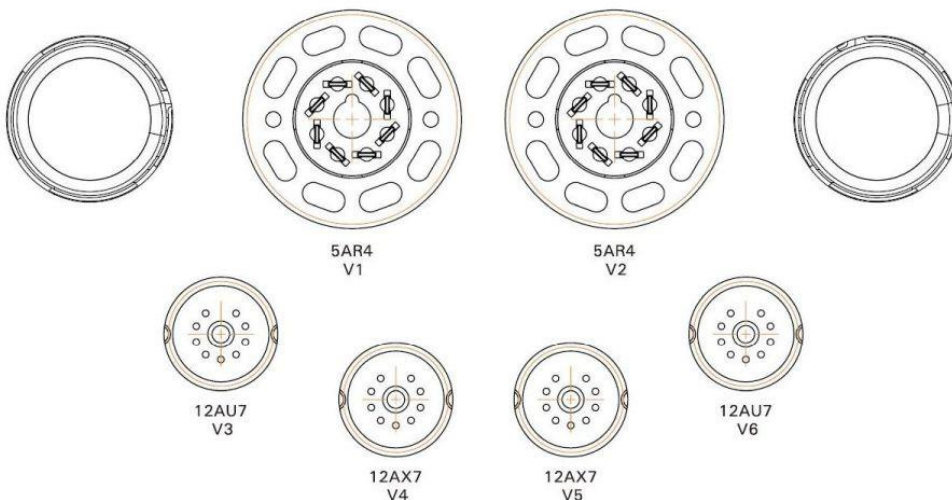
12AX7
V5

12AU7
V6

The EVO 100-9 DAC uses the following tubes:

1. 2 x 5AR4
2. 2 x 12AU7
3. 2 x 12AX7

PrimaLuna®
EvoLution Series

Installing a Windows Driver

If you plan to use the EVO 100-9 DAC with a Windows-based computer, you need to install a USB Audio Driver in your computer before you can use the DAC as an outboard USB sound card for your audio system.

The steps for installing the Windows driver are as follows:

1. Connect the DAC to the computer with a USB cable.

2. Turn on the DAC by pressing the Power ON/OFF button on the left side.
   Select the USB AUDIO input by pressing the USB button on the front panel, or press the USB button on the remote control.

3. Get your USB audio driver from your dealer, distributor or direct from Durob Audio BV: service@durob.nl.

4. Activate the driver installation process, skip all warnings until the installation process is completed.

5. If the driver has installed successfully, you should be able to see the name "XMOS USB AUDIO" at the Device Manager interface of your computer,or sometimes the device name will be displayed as "PrimaLuna EVO 100 Tube Digital Analogue Converter".

6. Select "XMOS USB AUDIO" or "PrimaLuna EVO 100 Tube Digital Analogue Converter" as an audio output device in your computer playback software.
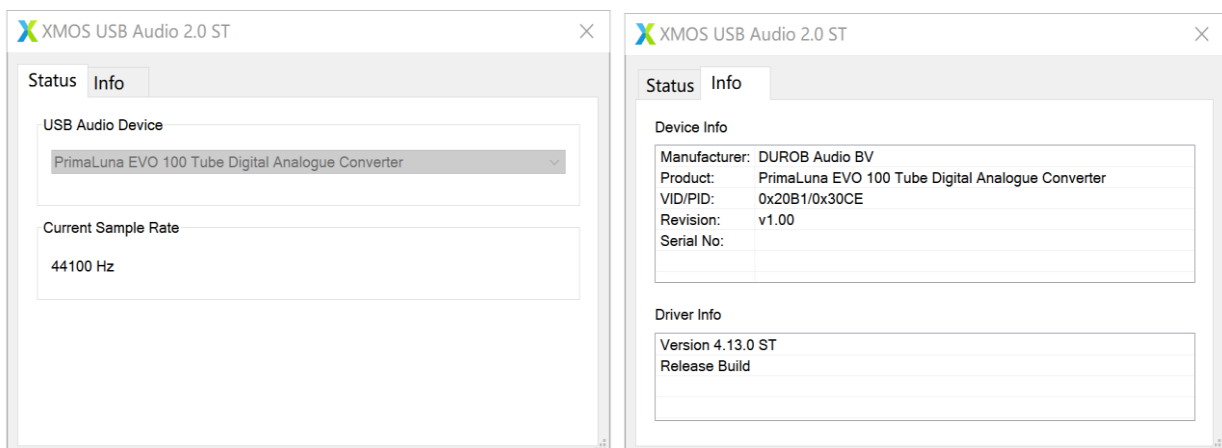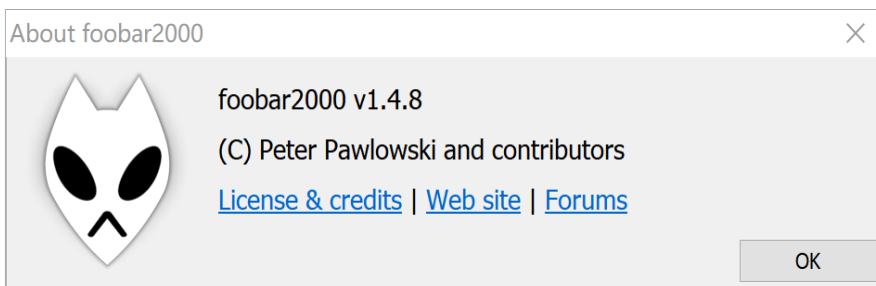
PrimaLuna®
EvoLution Series

Using USB Decoding on a Windows computer

1. Install the appropriate driver on your computer (see page 8).

2. Connect the USB port of the DAC to the USB port of a computer.

3. Select the USB input from your DAC.

4. Once the DAC can lock into the USB connection, the screen will display the bit rate and sampling frequency for your reference.

Please setup your playback software, such as Foobar2000, in your computer correctly, otherwise, the system will not be able to output the original unaltered bitstream to the DAC for decoding.

You might need to install a plugin such as ASIO or WASAPI to achieve that (see page 10).

About foobar2000   ✕

foobar2000 v1.4.8

(C) Peter Pawlowski and contributors

License & credits | Web site | Forums

OK

Using USB Decoding on an Apple (MAC) computer or audio network streamer

1. Connect the USB port of the DAC to the USB port from your Apple (MAC) computer or audio network streamer.

2. Select the USB input from your DAC.

Ps. There is no driver needed.

PrimaLuna®
EvoLution Series

Installing the ASIO Plugin As An Example

1. Download the latest version of ASIOProxyinstall from www.sourceforge.net. Run the file and also check here for additional set-up information if needed.

2. Click "File" > "Preferences" > "Components" > "Install" in Foobar2000 and install the plugin "foo_input_sacd.fb2k-component" and "foo_out_asio.fb2k-component" separately like the following picture shows.
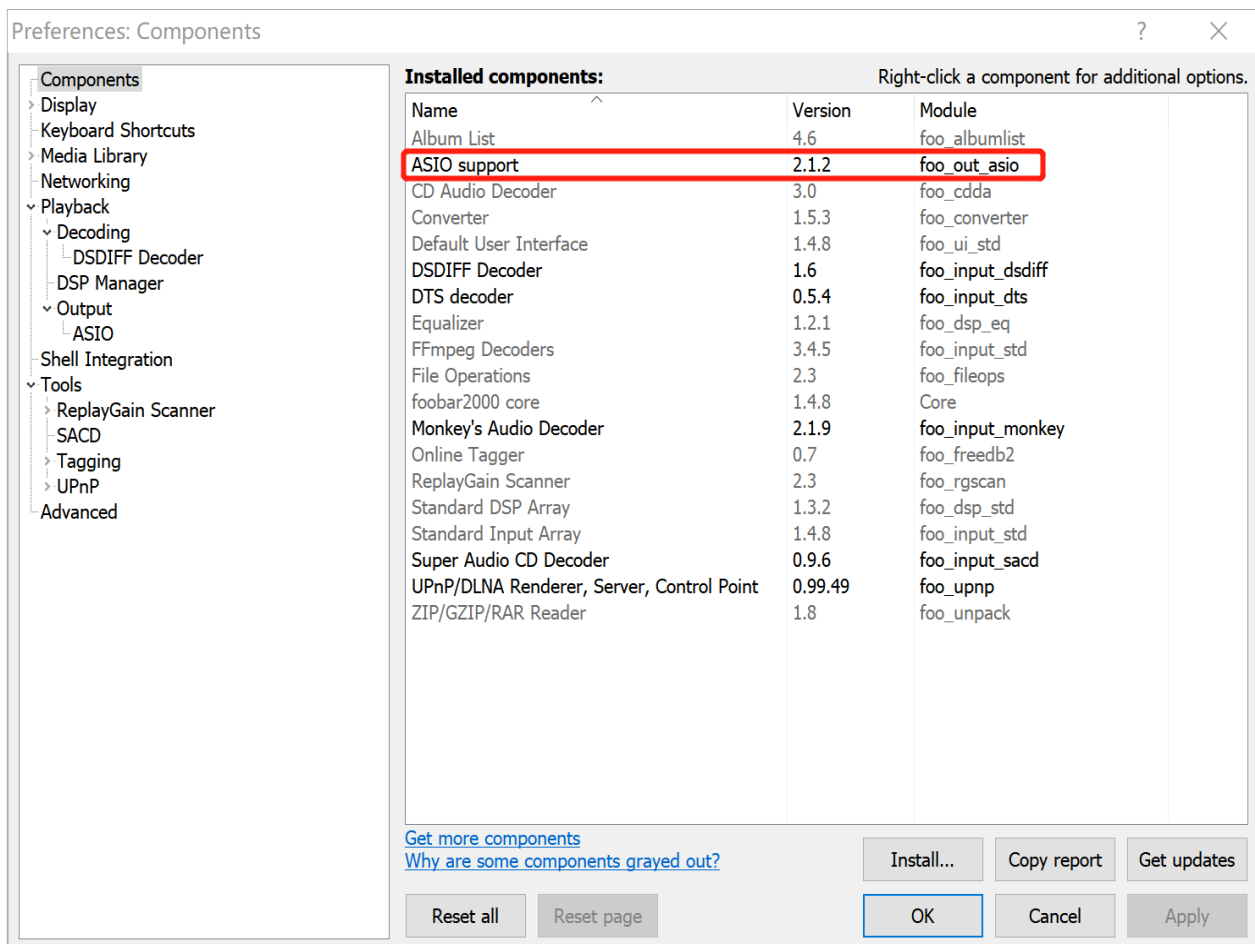
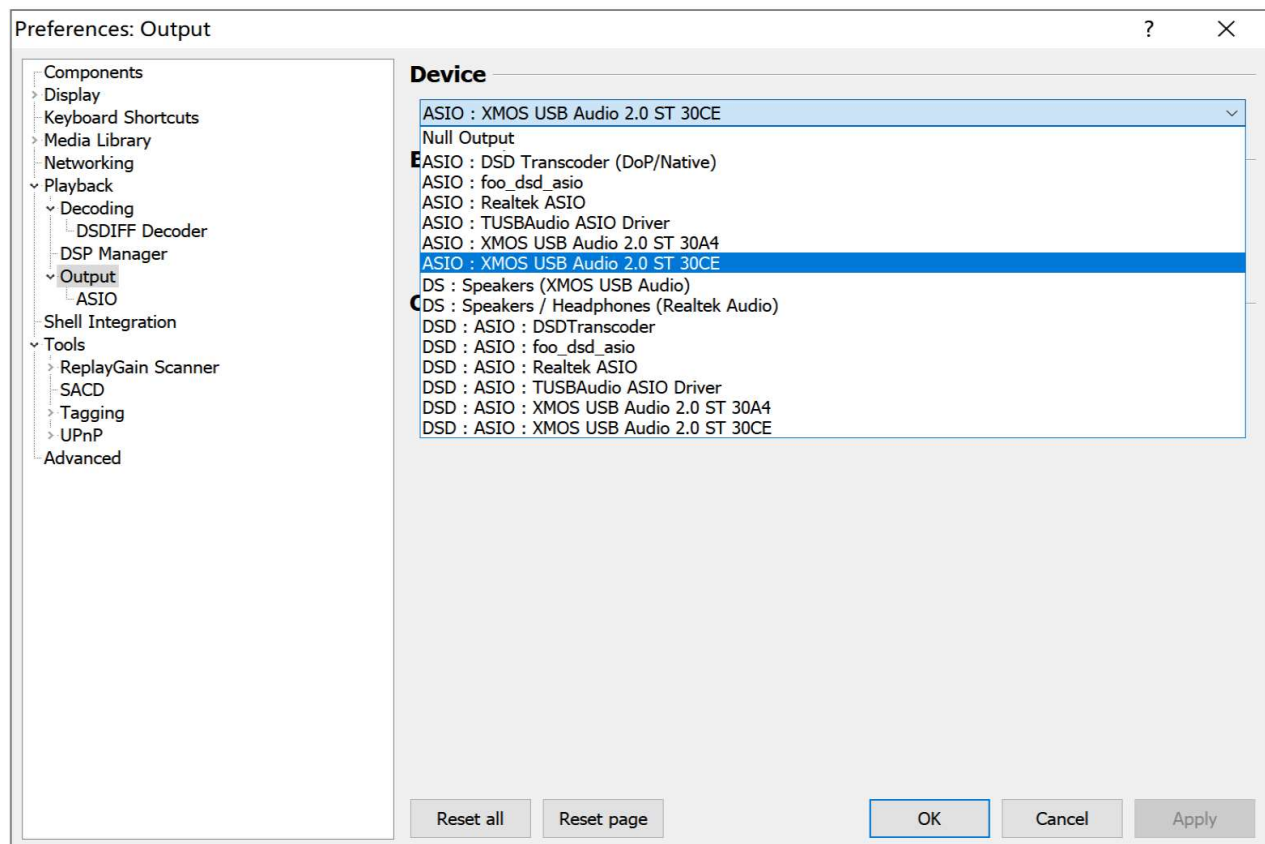# PrimaLuna®
EvoLution Series

Setting The Output Device
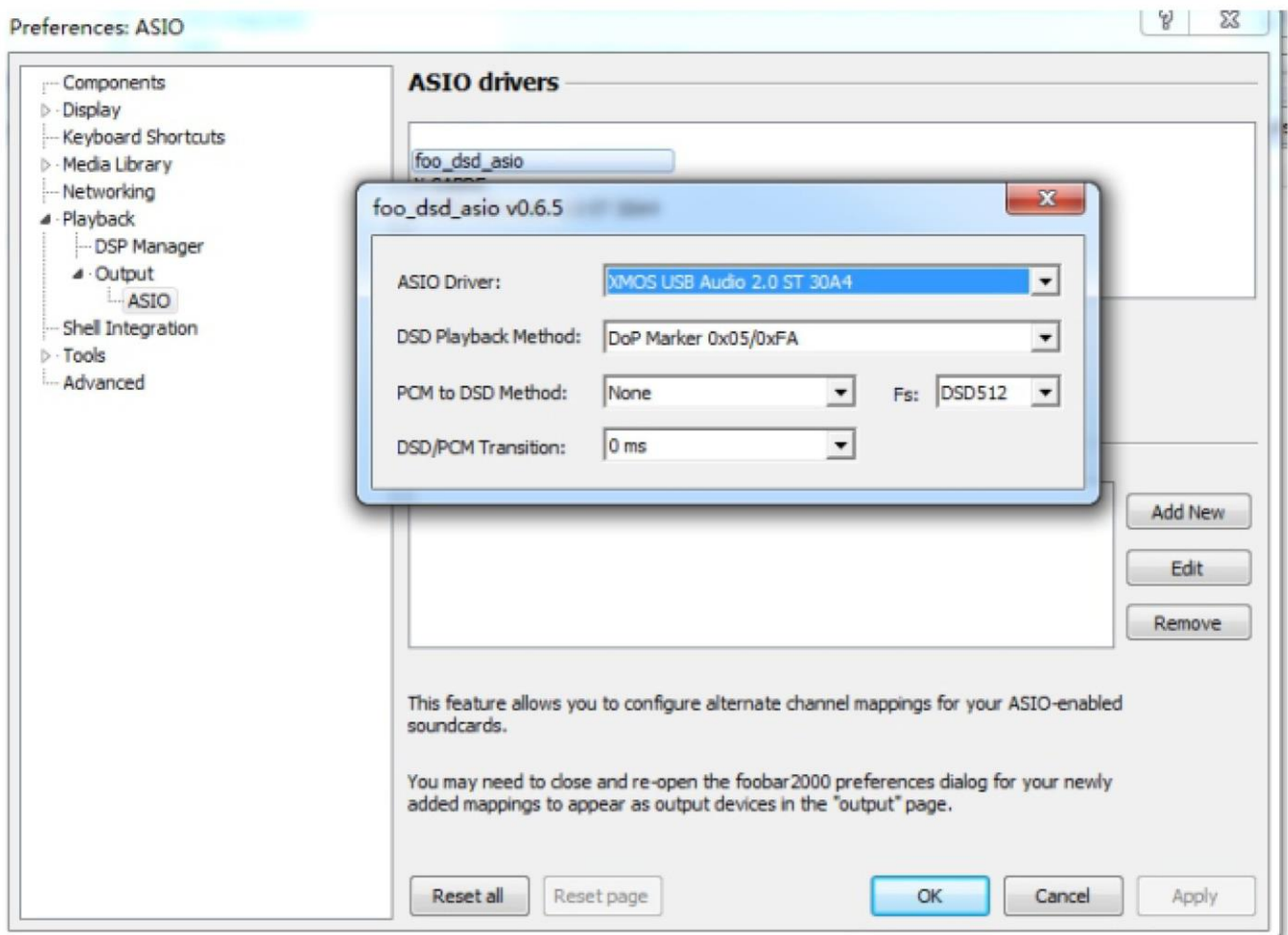
Click "output" and select "ASIO: foo_dsd_asio" under "Device" like in the following picture:

PrimaLuna®
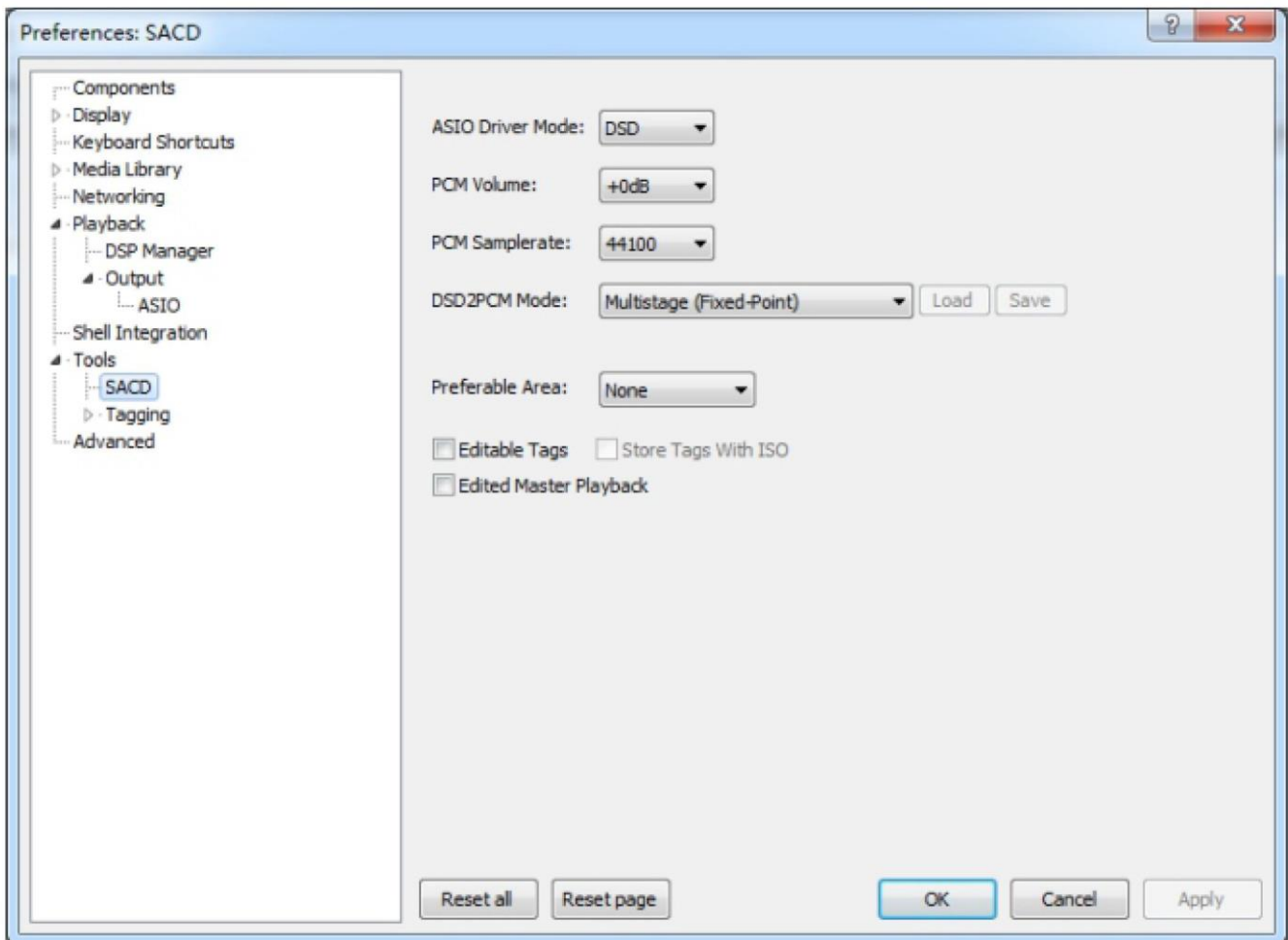# EvoLution Series

Setting ASIO Output Driver

PrimaLuna®
EvoLution Series

Setting SACD Output Mode

Click "SACD", and select "DSD" on "ASIO Driver Mode" like the following picture shows:

Click "OK" and the setting should be completed now.

PrimaLuna®
EvoLution Series

Technical Specifications

Digital Input			
Inputs	**Specifications**		
USB AUDIO	**Audio Format**	PCM	16Bit-32Bit，44.1kHz-192kHz
		DSD	DSD64-DSD128（DoP Mode）
	Operating System	Windows	Support（Driver needed：XMOS-Stereo-USB-Audio-Class2-Driver-30CE_v4.13.0.exe）
		MAC OSx	Support（Driver unnecessary）
		Android	No Support
		iOS	No Support（Support with Camera Kit）
	Operation Mode		Asynchronous USB Audio 2.0 Class
AES/EBU（XLR）	**Audio Format**	PCM	16Bit-24Bit，44.1kHz-192kHz
		DSD	DSD64（DoP Mode）
	Input Impedance		110 Ω
	Input Terminal		XLR Female
COAXIAL (RCA)	**Audio Format**	PCM	16Bit-24Bit，44.1kHz-192kHz
		DSD	DSD64（DoP Mode）
	Input Impedance		75 Ω
	Input Terminal		RCA
OPTICAL（TOSLINK）	**Audio Format**	PCM	16Bit-24Bit，44.1kHz-176.4kHz
		DSD	DSD64（DoP Mode）
	Input Terminal		TOSLINK
Analogue Output			
Outputs	**Specifications**		
RCA	**Output Level**		2.2V±2dB（47kΩ Load）
	Frequency Response		20-40kHz (±0.5dB，Fs=192kHz)
	THD+N		≤1.8% (Fs=192kHz)
	S/N Ratio		≥90dB （20-20kHz）
	Channel Seperation		≥80dB
	Output Impedance		2.7 kΩ
Others			
Size	**Size of the DAC**		14.9" x 11" x 7.5" / 378 mm x 280 mm x 190 mm (L x W x H)
	Size of the Package		18.4" x 15.2" x 12.5" / 468 mm x 385 mm x 316 mm (L x W x H)
Weight	**Net Weight**		28.7 lbs /13 kg
	Gross Weight		37.5 lbs /17 kg
Max Power Consumption			55Watts

⟨⟩ PrimaLuna®
EvoLution Series

Warranty Information

Two-year limited warranty

Six-month warranty on stock vacuum tubes

Terms & Conditions

1. Limited to the original purchaser. This warranty is for the sole benefit of the original purchaser of the covered product, and may not be transferred to a subsequent owner.

2. Conditions & Limitations. This warranty is subject to conditions and limitations, as follows. This warranty is void and inapplicable if the product has not been used in accordance with the instructions found elsewhere in this manual, or if it has been misused, abused, damaged by accident or neglect, or in transport once in possession of the purchaser. The warranty is also void if the product has been tampered with or has been repaired or modified by anyone other than Durob Audio BV or its specifically authorized representatives.

3. Remedy. If this product contains material, manufacturing, or workmanship defects, it must be packed in original packaging and returned to Durob Audio BV or its authorized representative via insured freight, at the owner's expense. Returned products must be accompanied by a written description of the defect, and a return authorization number (available from Durob Audio BV or the authorized representative via e-mail). Upon receipt of the defective product, Durob Audio BV or the authorized representative agrees to repair the product without charge for parts (except vacuum tubes if the unit is more than 6 months old), or labor. The product will then returned via prepaid, insured freight, with the carrier at the sole determination of Durob Audio BV or the authorized representative. This constitutes the purchaser's sole remedy.

4. Design change. Durob Audio BV and its partners reserve the right to modify their products or change specifications at any time without obligation or liability to previous purchasers.

5. Miscellaneous. Any implied warranties relating to the above product shall be limited to the duration of this warranty. This warranty does not extend to any identical or consequential costs or damages to purchaser or third-parties. Our liability will be no more than the amount you paid for the product that is the subject of a claim. This is the maximum amount for which we are responsible. This warranty gives you specific legal rights. You may also have other rights which vary from country to country and state to state.

PrimaLuna®
EvoLution Series

PrimaLuna Illumination

Herman van den Dungen: **PrimaLuna ▶** *in the Italian language is* **"First Moon"**. *My grandfather was the first* **"Herman"**. *My grandmother, an aristocratic lady in a small Dutch village, had a special name for her husband:* **"Maantje"**, *which means* **Little Moon** *(which became also the name of our small dog),* **van den Dungen.** *The people in the village adopted that name, and having a strong accent, they soon called him* **"Maontje"** *van den Dungen. My father's first name was Cor, but in the village, it was of course* **"Cor from Maontje van den Dungen".** *I was of course* **"Herman from Cor from Maontje van den Dungen"** *…… etc. That's why I thought of* **First Moon** *as a brand name and that's why the logo is how it is ……◀*

Loris Arrigucci: **PrimaLuna ▶** *believe it or not ... I discovered a small town located 50Km north of Milano called* **Primaluna**!!! *Please get yourself a map from Italy. You'll find* **Primaluna** *town near the upper-right corner. It is located 50Km north of Milano near the Lake of Como. This should eliminate every doubt regarding "Italian" origin of* **Primaluna** *name. I've read the "history" section of the* **Primaluna** *village web site and found the following (literally translated):*

One probable interpretation of the name of the village comes from Latin **"Primum Lumen"**, *which means* **"First Light"** *of Christianism since the very first evidence of Christianism in this region dates 495 Annus Domini.* **"First Light"** *translates into* **"Prima Luce"** *in Italian and this seems very interesting to me:* **PrimaLuce (FirstLight)** *is the first light that we, hi-fi lovers with small budgets, can see in this world of darkness populated by way too expensive esoteric gears ……◀*

♫

Please contact us for registering your **PrimaLuna EVO** tube product. We will keep you updated on any upgrades or any other information related to your product. If you wish to comment on your **PrimaLuna EVO** tube product, please do. If you want to send us a review of your experience with the amplifier, you are more than welcome to. If you want to discuss with other **PrimaLuna** owners, join the completely independent **FaceBook PrimaLuna Amplifiers Owners Group**. If you have any technical questions, please don't hesitate to contact us. We thank you upfront for your time and attention.

<table>
<tr><td>National distribution:</td><td>Worldwide distribution:
Durob Audio BV
P.O. Box 109
5250 AC Vlijmen
The Netherlands

Email: primaluna@primaluna.nl
Website: www.primaluna.nl</td></tr>
</table>